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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,389	07/24/2006	Bob Van Someren	NL040092	1302
24737 7590 02/04/2009 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 PRIABCLUSE MANOR NIV 10510			EXAMINER	
			ORTIZ CRIADO, JORGE L	
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			2627	
			MAIL DATE	DELIVERY MODE
			02/04/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Action Comments	10/597,389	VAN SOMEREN, BOB					
Office Action Summary	Examiner	Art Unit					
	JORGE L. ORTIZ CRIADO	2627					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 66(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	<b>J.</b> nely filed the mailing date of this or D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>24 Ju</u>	lv 2006.						
·	action is non-final.						
3) Since this application is in condition for allowar		secution as to the	e merits is				
closed in accordance with the practice under <i>E</i>	•						
Disposition of Claims							
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.							
,— , , <u>—</u>	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) <u>1-11</u> is/are rejected.	·						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement						
	oloolon roquilomoni.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>19 June 2008</u> is/are: a)	☑ accepted or b)☐ objected to	by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority documents	, • • • • • • • • • • • • • • • • • • •	-(d) or (f).					
2. Certified copies of the priority documents	s have been received in Applicati	on No					
3. Copies of the certified copies of the prior			Stage				
application from the International Bureau	PCT Rule 17.2(a)).		· ·				
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) X Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	акент Аррисацоп					
	<i>'</i> — —						

#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 11 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 10 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 10 is drawn to a "computer program" *per se*, therefore, fail(s) to fall within a statutory category of invention.

A claim directed to a computer program itself is non-statutory because it is not:

A process occurring as a result of executing the program, or

A machine programmed to operate in accordance with the program, or

A manufacture structurally and functionally interconnected with the program in a manner which enable the program to act as a computer component and realize its functionality, or

A composition of matter.

See MPEP § 2106.01. Data structures not claimed as embodied in computer readable media are descriptive material *per se* and are not statutory because they are not capable of causing functional change in the computer. See, e.g., *Warmerdam*, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure *per se* held nonstatutory). Such claimed data structures do not define any structural and functional interrelationships between the data structure and other claimed aspects of the invention, which permit the data structure's functionality to be realized. In contrast, a claimed computer readable medium encoded with a data structure defines structural and functional

interrelationships between the data structure and the computer software and hardware components which permit the data structure's functionality to be realized, and is thus statutory. Similarly, computer programs claimed as computer listings *per se*, i.e., the descriptions or expressions of the programs are not physical "things." They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer, which permit the computer program's functionality to be realized.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 9 recites the limitation "the memorized tilt angles". There is insufficient antecedent basis for this limitation in the claim.

Claim 9 recites the limitation "the means for creating the tilt map". There is insufficient antecedent basis for this limitation in the claim

The term "appropriate model" in claim 9 is a relative term which renders the claim indefinite. The term "appropriate" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Application/Control Number: 10/597,389 Page 4

Art Unit: 2627

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 7, 10 and 11 rejected under 35 U.S.C. 102(b) as being anticipated by Moriya

et al. U.S. Patent No. 5,202,864.

As per claim 1, Moriya et al. discloses a device (Fig. 1) for scanning an optical disc, the

disc (202) comprising a pattern) of substantially parallel data tracks, the device comprising an

optical pick up unit for creating, from a light beam, a spot on a data track of the pattern; means

for moving the spot relative to the pattern; means for determining a radial tracking error signal,

the radial tracking error signal indicating a deviation of the spot relative to the data track, the

means for determining the radial tracking error signal being arranged for determining a periodic

signal from the radial tracking error signal while the spot is radially moving across the pattern, a

period of the periodic signal corresponding to a pitch of the data tracks; and means for detecting

a tilt angle between an optical axis of the pick up unit and the optical disc, the means for

detecting the tilt angle being arranged for detecting an asymmetry in the periodic signal during

the period (see Figures 1, 2, 3 for instance with the detailed explanation of drawings; and col. 7,

lines 36-49).

Art Unit: 2627

As per claim 2, Moriya discloses wherein the means for detecting the tilt angle is arranged for integrating the periodic signal over an integer number of periods (see Fig. 2; col. 7, lines 36-49; LPF for instance).

As per claim 3, Moriya discloses wherein the means for detecting the tilt angle is arranged for determining a shift of a zero crossing of the periodic signal (See Fig. 2A).

As per claim 4, Moriya discloses further characterized in that the means for determining the radial tracking error signal is arranged for determining a radial push pull (RPP) signal or a differential time detection (DTD) signal (see Fig. 1, for instance elements 14,15 and 16.

As per claim 7, Moriya discloses (col. 7, lines 31-35; Fig. 2) wherein the means for moving the spot comprises means for rotating the disc and an actuator for radially moving the pick up unit across the pattern, while the disc is rotating.

As per claim 10, is drawn to the method used above and is rejected for the same reasons of anticipation.

Claim 11 is drawn a the "program product" / program which is used to operates for instance a processor, Moriya discloses a optical disk apparatus, it is readily understood that such program product is provided to operate such apparatus.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moriya et al. U.S. Patent No. 5,202,864.

Although Moriya et al. does not expressly disclose moving the pickup while the disc is stationary or rotating the disc while the pickup is in stationary position. The examiner takes Official Notice that these are merely obvious variants and well known process in the art that are used to produce such tracking error signals.

And one of an ordinary skill in the art would have found obvious to use any of these alternatives variants.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Moriya et al. U.S. Patent No. 5,202,864 in view of WO 02/05271 or US. Pat No. 4,710,908.

Although Moriya et al. does not disclose a means for memorizing the detected tilt angles and creating a tilt map of the optical disc depending on the tilt angles. These feature are well known in the art as evidenced by for example (WO 02/05271-{for instance col. 8 to col. 9} or US. Pat No. 4,710,908-{see Figures}) were it is suggested to save and store surface (e.g. tilt, warp, etc. values) and creating a map using those values to be used later in the recording or

reproduction process of the disc. It would have been obvious to one of an ordinary skill in the art that would be motivated as for the reasons taught in those references.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JORGE L. ORTIZ CRIADO whose telephone number is (571)272-7624. The examiner can normally be reached on Mon.-Fri 10:00 am- 6:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrea L. Wellington can be reached on (571) 272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.